



THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.
Founded in 1931

SEPTEMBER 2018
VOLUME 71, ISSUE 1

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Go-Kits

TIM GUYOT, KB1POP, RARA VICE PRESIDENT

This month, Ralph Dutcher KD2BDZ and Jon Dickason N2JAC will be leading a program on radio go-kits. They'll start by covering the why, and the how to...

- What they're for... A last minute volunteer event, a natural disaster, or more
- Design goals and requirements... AC/DC? Solar? 7Ah, 12Ah? Inside or outside connectors
- What skills are needed to assemble
- Where to get parts (At the right price)

To help explain their points, Ralph and Jon will bring kits of their own as demonstrations. If you have a radio go-kit, we'd love if you would bring it to share as well. For those looking to build, more ideas and examples are helpful.

Whether you're interested in building a VHF kit on a budget, or all-mode-all-band with every bell and whistle, these guys are able to provide guidance and I'm sure other members who bring their kits will have great information and advice as well.

While it's ultimately up to the education coordinator, if there's enough interest, this could lead to a RARA academy session.

Please join us for this very hands-on, interactive meeting

Wednesday, Sept 5th, 2018
7PM at the Boy Scouts Headquarters
2320 Brighton Henrietta Townline Road,
Rochester, New York 14623



RARA



See Map At End Of RAG

RaRa Banquet

September 21, 2018

6:00 PM

Dinner at 7:00 PM

Burgundy Basin Inn

1361 Marsh Road

Pittsford, NY



Don't forget to buy your tickets!

Members: \$20 or 40 Membership points

Non-members: \$20

Make reservations no later than

September 19, 2018

NO tickets will be sold at the door.

Purchase Tickets On Line Only

BOARDZ BUZZ

TIM BROWN, WB2PAY

I have tossed around several ideas on what to cover in this section.

"Boardz Buzz" would seem to call for information about the board from a board member.

The other side of the coin is to hear about the individual board member. So I will do a little of each topic.

Having been appointed to the board in December to fill a vacancy, I have been impressed at the drive and commitment of all the board members. Starting at the top, the president is the organizer who keeps ideas flowing and motivates everyone to meet the needs of RARA. The Vice president has the daunting task to obtain speakers for our meetings. The treasurer keeps our financial status sound and tracks our expenditures. The secretary multitasks not only keeping the minutes of meetings but actively participates in discussions. All the board members take on tasks, projects and committees to make RARA a viable club.

Before I was on the board, I took the board and the functions they perform for granted. I did not realize the work that goes on behind the scenes to pull off a meeting, public service event or a social get together.

The board may be the inner core of the club, but the substance of the club lies in the members who step up to fill the many functions that make RARA a "club". Running raffles at meetings, supplying refreshments for events, stepping up to staff the many public service events etc. These are just a few areas that the board and the club needs your help.

Now a bit about this board member. I enjoy helping hams as an Elmer and teacher. That made me a natural fit for the Education Coordinator position.

Organizing license classes as well as RARA academy workshops is the "duty" portion of the function. The rewarding portion of the position is seeing new hams become licensed and seasoned hams advance to a higher level.

Throughout my 56 years as a ham, I have touched on many of the hundreds of aspects of Ham Radio.

- Learning CW (which later became a special skill I used in the ARMY),
- Building Heathkits
- Operating Field Days
- Refurbishing Vintage Radios
- Public Service and ARES Events
- Digital modes
- Fox hunting
- Net operations
- Ragchewing (I talk a lot)
- Antenna building.

I enjoy sharing my experiences with other hams to help them better enjoy the hobby.

I encourage all hams to share their skills and get involved in a project, Public Service event, a committee or even join the board. Don't be a spectator, be a participant.

2019 ROCHESTER HAMFEST

TIM GUYOT, KB1POP, RARA VICE PRESIDENT

We're penciled into the venue's calendar for June 1st 2019. Right now we're finalizing the details and expecting to have a contract signed mid-September, almost 6 months ahead of last year. As soon as the contract is signed, we'll be notifying media outlets like the ARRL to spread the word. The new board will be looking to put together a hamfest 2019 committee. If you're interested in helping in any way, please contact hfproducer@rochesterham.org

CALENDAR OF EVENTS

WEDNESDAY SEPTEMBER 5, 2018- RARA Business and General Meeting
7:00 PM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

FRIDAY SEPTEMBER 21, 2018— BANQUET
Burgundy Basin Inn

WEDNESDAY OCTOBER 3, 2018- RARA General Meeting
7:00 PM at BSA Headquarters
2320 Brighton Henrietta Town Line Rd

WEDNESDAY NOVEMBER 7, 2018— RARA Auction

SATURDAY FEBRUARY 9, 2019—WINTERFEST
Stewart Lodge—Mendon Ponds Park

PUBLIC SERVICE UPDATE

Mike Moore KC2NM

The single public service event in the month of September is the Fairport Lift Bridge Regatta to be held Sunday September 30th, 2018



The regatta is held on the beautiful Erie Canal and finishes at Perinton Park near the very picturesque Village of Fairport. The course is approximately 5,500 meters. A minimum of ten (10) ham operators are needed this day to provide the primary Safety Net for this water event. We, Hams, are needed aboard committee boats, rescue boats, and judge's boats during the entire event. Hams will be used at a couple of land based points as well. Food and drink will be provided. Timeline: 6:00 AM – 2:00 PM

If sufficient operators are available, we can work in shifts. The race takes a break for lunch and all the safety boats and two land point staff will return to the Fairport Crew Club Boathouse. Please sign up via the RARA website at: https://rochesterham.org/public_service.htm

Our RARA Team Captain for this event is Mark Pedersen KC2UES.

I encourage you to sign up for the Regatta team. This event is very well run and presents a great example of sportsmanship in a family friendly environment!

Remaining events in the 2018 public service calendar are listed in the following table. Visit https://rochesterham.org/public_service.htm for more information and to volunteer.

Fairport Lift Bridge Regatta	Erie Canal – Fairport, NY	Sunday	September 30
Jamboree on the Air	BSA Camp Babcock-Hovey Ovid, NY	Friday - Saturday	October 19-20
Pumpkin Patrol	Overpasses of the New York State Thruway	Tuesday & Wednesday	October 30-31
Holiday Science & Technology Days	Rochester Museum & Science Center	Wednesday - Saturday	December 26-29



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NOMINATING COMMITTEE REPORT

14 August 2018

Mr. Anand Choudri, KC2KPG
Secretary, Rochester Amateur Radio Association, Inc.
P.O. Box 93333
Rochester, NY 14692-8333

Dear Anand and Members of RARA:

On behalf of the members of the Nominating Committee I am pleased to place the following names in nomination as Officers and Directors of the corporation for the 2018-2019 term.

President: Tim Guyot, KB1POP
Vice-President: Scott Theis, W2LW
Secretary: TO BE FILLED FROM NEW BOARD
Treasurer: Brian O'Connor, KA2CGB

Directors:

Tim Barrett, K9VB
Jim Burroughs, KN4LSL
Tim Brown, WB2PAY
Ralph Dutcher, KD2BDZ
Karl Heinz Kremer, K5KHK
Don Kiser, AC2EV
Mike Moore, KC2NM
Troy Rank, KC2BZM

This completes the work of the Nominating Committee. I wish to thank Anand Choudri, KC2KPG and Mark Pedersen, KC2UES for their invaluable work on the committee and their help in preparing this report.

Sincerely,

Gary R. Skuse., KA1NJL
Chairman, 2018-2019 Nominating Committee
Rochester Amateur Radio Association, Inc.

BIOGRAPHIES OF CANDIDATES FOR OFFICERS AND BOARD OF DIRECTORS OF THE ROCHESTER AMATEUR RADIO ASSOCIATION

TIM GUYOT, KB1POP CANDIDATE FOR PRESIDENT

In college at RIT, I met a few others who had CBs, but as soon as I learned about power limits (I've always been a legal CB operator) and antenna efficiency, I quickly became interested in amateur VHF operation instead. In 2007, with some support from Dave Snyder (KC2REO) I entered the amateur radio world picking up my technician's license. A year later I upgraded to general. While at RIT, I worked with Jim Stefano (W2COP) and Dave Snyder to help maintain K2GXT radio equipment and EchoIRLP repeater.

I've mainly been a VHF/UHF operator. I have volunteered to support many events involving cycling or running. (BikeMS, AIDS Rochester Red Ribbon, Rochester Marathon, Etc.) and I look forward to more. My primary areas of technical interest are UHF-10m antenna design and field operation. I picked up a TS-440s at our last auction and wrote an article for the January Rag about getting it on the air. Now that I'm into my new house, I'm looking forward to exploring HF more.

I've served on the RARA BoD for the last two years as Secretary and VP. I've been involved in the Hamfest for three years, and on the three-person Hamfest Committee for the last two. I hope to serve as President on the Board for the coming year.

If elected, my goals are:

- 1- To continue to improve on the great events and services we already deliver (Regular meetings, special meetings like the Picnic, and RARA Academy)
- 2- To drive membership by learning the interests of our license examinees and class takers and reaching out to them about services and events that align with their interests.
- 3- To organize and promote operating opportunities and eventually open our own club station.

SCOTT THEIS, W2LW CANDIDATE FOR VICE PRESIDENT

I am currently an Extra Class amateur and member of RARA. In the last year I have served as a member of the Board of Directors for RARA, RARA Academy co-manager/instructor and club webmaster. I hope to continue help the club by serving as the Vice President and Webmaster. My primary goal is to support amateur radio through club activities in education, web development and operating opportunities.

I have been working with electronics from a very young age (playing with lights and batteries at the age of four). As I grew up I quickly realized there was a wealth of goodies in the electronics that adults would throw out. One of my early radio projects (today referred to as a hack) was building a transmitter from a conventional AM five-tube radio. I collected equipment while learning and building as much as possible with radio and TV. This included improving the front end of various TV receivers to further my fledgling DX hobby receiving UHF stations in Iowa and Wisconsin from my home in Minneapolis. By the way, I had no idea what atmospheric ducting was at the time.

At the end of the 60s, my father introduced me to transistor logic and 7400 series ICs. The computer became the next area of interest and, in fact, from my mostly father's design, I built a working 16-bit computer strictly from 7400 series TTL devices. This was right as the Intel 8080 was released.

While I have only recently been minted as a ham, I have been listening, building and playing since I was a child (I still have my 1974 ARRL Handbook).

In real life (where you make a living), I work as a Software Developer and Business Manager for a local software company that develops, sells and supports products worldwide to help public corporations and mutual funds create and file documents to the U.S. Securities and Exchange Commission. I have been working with the analysis and processing of text, HTML, SGML and XML for the past 30 years which has lead me into the development and support of GUI interfaces, communication protocols and internet functionality. Prior to that, I worked with hardware and software for data stream processing. I have also developed a couple of assemblers as well as several script languages.

BRIAN O'CONNOR, KA2CGB
CANDIDATE FOR TREASURER

Brian O'Connor has been licensed as KA2CGB since 1978. His amateur radio interests include HF phone and data as well as VHF scatter modes.

Brian retired from Harris RF Communications after 30+ years where he helped customers implement radio systems with stations from QRP to 100 kW. He and his family lived in Europe for two years and in the Middle East for 10 years.

In addition to his duties as RARA's treasurer, he is a volunteer at the Antique Wireless Association (AWA) museum in East Bloomfield.

Empty-nesters, Brian and XYL Marion live in Perinton

TIM BARRETT, K9VB
CANDIDATE FOR BOARD OF DIRECTORS

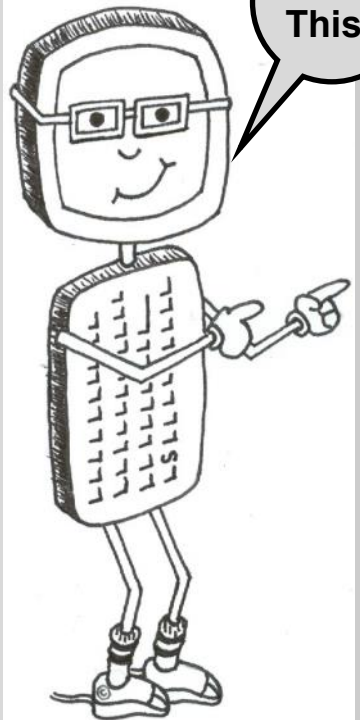
Born and raised in the UK, I have lived in Honeoye Falls, NY since 2004. I have had a lifelong interest in radio and electronics, first becoming licensed in the UK as G7NYA in 1987 and later as M0TIM. On moving to the US one of my first actions was to get my Extra ticket and become a member of RARA (Life member since 2006). My main interests are HF and restoring or repairing old test equipment, but I am also interested in the technical / theoretical side of the hobby.

We are very fortunate to have such a great club in the Rochester area and I firmly believe that the progress we have made recently in moving the club forward is a benefit to the Rochester area amateur radio community. I have served as Membership Secretary for the past four years and been on the Board of Directors for three years organizing or helping to organize RARA events. I am now seeking re-election to the Board of Directors and looking forward to working with the rest of the team to continue developing the club.

TIM BROWN, WB2PAY
CANDIDATE FOR BOARD OF DIRECTORS

I joined the RARA Board of Directors in December 2017 to fill a vacancy. During my time on the board, I focused on Education programs and RARA Academy workshops. I also worked on RARA Public Service events, RARA Hamfests, BSA Radio Merit Badge classes and I am part of the BSA Venture Crew endeavor.

My electronics career began at Sylvania Electronics in Batavia. When Sylvania moved south, I came to Rochester with RCA Service Company. I retired from Kodak's Electronic Services group which provided support for the Research Laboratories Scientists.



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- [York Radio Club](#)
- [Niagara Peninsula Amateur Radio Club](#)

SATELLITES

- [AMSAT](#)
- [CelesTrak](#)
- [N2YO.com](#)
- [Heavens Above](#)

SDR

- [The Tayloe Mixer Board](#)

Licensed in 1962, I have touched on many aspects of Ham Radio. I mastered CW at age 15 which later became a special skill I used in the ARMY. Although I am not a contest ham, I enjoy participating in Field Day activities. I strive to share my experiences with other hams so they may better enjoy the hobby. I look forward to continued service to RARA on the Board of Directors.

JAMES BURROUGHS, KN4LSL
CANDIDATE FOR BOARD OF DIRECTORS

Dr. James E. Burroughs is a career law enforcement administrator and educator who remains active in both the law enforcement and higher education communities. Currently, Burroughs serves as the Resident Agent in Charge (RAC) of the US Department of Justice/Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Rochester Field Office. Burroughs, who has been in this position since 2016, oversees the Rochester Violent Crime Taskforce (VCTF) tasked with enforcing various state and federal laws within a nine county region in western New York. Burroughs began his tenure with ATF in 2009 and previously served as a Special Agent in New York City and the State of Florida. He maintains a collateral position with the Special Operations Division as a Tactical Medic on the Special Response Team.

Prior to joining ATF, Burroughs honorably served as a Military Police Officer in the US Army, a Deputy Sheriff in the State of Florida, and a Federal Air Marshal with the US Department of Homeland Security culminating over 28 years of law enforcement service. Other public safety experience included service as the Chief of his hometown Ambulance Squad and as a NASAR Search and Rescue Team Coordinator where he was first introduced to the ham radio community working hand in hand with the Flagler County Assist REACT and ARES. As a new HAM, interests include learning more about Amateur VoIP and applicability in emergency services.

Burroughs holds a Bachelor of Science degree in Human Services from Thomas Edison State University, a Master of Business Administration from the Florida Institute of Technology, and a doctoral degree in Public Policy and Administration from Walden University.

RALPH DUTCHER, KD2BDZ
CANDIDATE FOR BOARD OF DIRECTORS

I would like to be considered as a candidate for the board of directors. I currently hold a general class license and I am pursuing an Extra designation through the RARA classes.

I graduated from Roberts Wesleyan College (BA), Adelphi University (Legal Assistant program) and SUNY Buffalo / Millard Fillmore College (Telecommunications courses). I have retired from a position as a Public Health Emergency Preparedness Consultant at the Monroe County Department of Public Health. I was the MCMRC coordinator and I have FEMA / ICS training through ICS400. I currently participate (occasionally) as a Standardized Patient at the URM School of Medicine.

I am an exempt member of the Chili NY volunteer Fire Department, where I served as a volunteer FF/EMT-B.

Currently I am the acting BOD President of the Monroe County ARES / RACES group. My interest in Amateur Radio communications centers around public preparedness . I'm currently the Net Control manager for the ARES/RACES Thursday Net and an active participant in the local ARES programs and exercises with the MCEOC and Red Cross.

I am active with the media ministry at the Open Door Baptist Church in Churchville. My wife and I live in Chili NY.

KARL HEINZ KREMER, K5KHK
CANDIDATE FOR BOARD OF DIRECTORS

Two first names, and no middle name – my friends call me Karl Heinz. I am a new ham again.

I was born and raised in Germany. From a young age on, I was fascinated by all things electrical. I started to take things apart that others were throwing out (TV sets, radios, anything with an electric motor I could get my hands on and so on). Eventually, I started to put those parts that I crudely took out of stuff back together to build other stuff. That got me on the path to become an electrical engineer. My first job after graduation was as a software engineer, and I never actually worked as an electrical engineer.

I worked for Kodak in Germany, and they moved me to Rochester - twice. In '94 I got my Tech+ license as N2XRQ . I made a few 5WPM contacts and then job and life had different plans for me and I put the radio away for more than 20 years. Last fall I took my radio out of storage, upgraded to Extra (now as K5KHK) loaded up my rain gutters and played around with digital weak signal modes. I've always enjoyed homebrewing (the electronic kind, but I've brewed beer a couple of times as well). Earlier this summer I volunteered at the Tour de Cure - my first experience with public service using a radio - and got a big kick out of it. I'll be back next year.

I am my own boss – and my only employee: I write software around the PDF file format, with a client base that spans the globe.

As a RARA board member, I would like to be a champion for new hams. Based on my experience as a new-again ham, I know how hard it is to get on the air, and anything we can do to make that easier will help them to get enjoyment out of the hobby - and stick with it without taking a 20+ year break.

DON KISER, AC2EV
CANDIDATE FOR BOARD OF DIRECTORS

I am a current BOD member, lifetime member of RARA, and VE Team Leader. Have you upgraded yet? Free exams are held every 3rd Saturday. I enjoy working HF when the time allows. But, mostly I find myself spending time with my three children, we just started Fox hunting. I hope to again serve as a member of the BOD.

MIKE MOORE, KC2NM

CANDIDATE FOR BOARD OF DIRECTORS

I have been a ham for 50 years and have found it to be a great hobby! I received my Novice license at the age of 14 with the callsign of WN8ZPY in Southern Ohio. My first ham rig was a Heath HW-16. I graduated the next year to WA8ZPY and an HW-100. I had a lot of fun as a teenager working local stations, DX, and some net work. After High School, I earned a BSEE degree from the University of Cincinnati and while there worked as a Co-op for a gentleman that I knew quite well from 2 meter FM. I upgraded to Advanced in college. Following college, I moved to Rochester with my wife Susan to work for Xerox and picked up an MSEE degree from RIT. I joined RARA sometime in that period as WA2GSG. My career took a turn to sales and then automation software development working for myself. In 1995, I studied for the Amateur Extra license at the RARA prep course and passed the Extra Test with the callsign KC2NM. My current radio interests include DSTAR and the other digital modes. I retired from Exelis in 2014 as a test engineer to pursue my hobbies which include sailing, biking, computers, and cooking. Our two children live with their families here in Rochester so there are many opportunities to do the granddaddy thing. I serve as the Public Service Event coordinator and look forward to adding the RARA director role to that.

EDUCATION

Tim Brown, WB2PAY, Education Coordinator

2018 Fall License Classes:

The Technician and General classes will be held at RIT beginning Tuesday September 18th. Room assignments and directions to classes will be emailed to those who sign up for the classes.

The question pool for the Technician class has been updated and New License Manuals are available. Those signing up for the Technician or General classes may purchase a License Manual for \$25. License Manuals will be available at the RARA meeting Sept 5th and the first night of class.

To register for the Technician or General classes email education@rochesterham.org

Classes are FREE to RARA members and \$15 for nonmembers.

There will not be an Extra class this fall. The next Extra class is planned for March 2019.

2018 Fall RARA Academy Workshops

Latest information is available at https://www.rochesterham.org/rara_academy.htm

Academy Workshops are held at the BSA Headquarters, 2320 Brighton Henrietta Town Line Rd, 10am to noon. You may sign up for Academy Workshops by emailing education@rochesterham.org

DIGITAL MODES — 9/8/2018:

The Digital Communications Association of Perinton, DCAP, will present a workshop to describe D-Star, DMR and FUSION modes. Mike Moore, KC2NM will be the lead for this program.

The topics for the September 8th session will include:

- Why these modes are different
- Demonstration of each mode on the air
- Connection Methods for internet linking
- Repeater types that support these modes.
- Multimode Repeaters and Hotspots
- Radio Programming
- Rochester Usage - summary of local use of the 3 digital modes

GETTING ON THE AIR WITH HF — 10/20/2018:

The topics for the October 20th session will include:

- Hands on QSOs (multiple radios will be set up for operations and QSO role playing)
- QSO Structure (calling dos and don'ts)
- Introduction to Nets
- Overview and use of Q codes
- QTH and Grid Squares
- Review of Band Plan and Considerate Operator's Guide
- Overview of HF Antennas

POWER SUPPLIES AND BATTERY TECHNOLOGIES — 11/17/2018:

The topics for the November 11th session will include:

- Switching and Linear Power supplies (characteristics & benefits)
- Battery Technologies: Lead Acid, Gel Cell, AGM and Lithium
- Characteristics and Uses for Various Technologies
- QRP Low Power Sources and Solar Power
- Power Pole Connectors and DC Distributions Systems
- Charging Systems: Battery Tender, Solar, Power Gate, Battery Boost
- HV Power Supplies and HV Test Equipment
- SAFETY in All Power Systems

VHF/UHF OPERATIONS — 12/1/2018:

The topics for the December 1st session will include:

- Repeater Operations

- Internet Links like IRLP and Echolink
- Mobile, Portable, Handheld and Ham Shack Considerations
- Review of Digital Modes on VHF/UHF
- VHF/UHF SSB Operations
- Satellite Operations
- VHF/ UHF Antenna Options

Please take advantage of these RARA sponsored training and operating opportunities.

If you have a topic that you think will interest the membership, drop an email to education@rochesterham.org

NOTES FROM THE WORK BENCH: THE SLOP BUCKET 20M SSB TRANSCEIVER

Karl Heinz Kremer – K5KHK

I am a – mostly lurking – member of a few homebrew and QRP related mailing lists and forums on the Internet. It's a great place to learn from people who know a whole lot more about this stuff than I do. While lurking, I caught an announcement by Steven Weber (KD1JV – 2004 inductee to the QRP ARCI Hall of Fame) about a new design of his: A 20m SSB rig in kit form with about 5 to 7W output. I jumped on it and ordered one of the 50 kits he was selling for \$60, and ended up with S/N 006. He sold out his first run, but is working on the second run with an option to build the radio for either 20 or 40 meters. For more information go to <https://groups.io/g/kd1jvdesigns>

The kit consisted of the PCB and a whole bunch of SMD parts – there were almost no through hole parts in the bill of materials. When it comes to SMD components, there are different ways to solder them, and in the past I've used the "steady hand – extreme magnifier – solder with a very fine tip while your nose is almost on the board" method. This time I wanted to use hot air and soldering paste. With a heat gun from Harbor Freight, I was able to control both heat and air movement enough to finish the board in a couple of evenings.

Here are some pictures of the finished board before it got mounted in a case:



There were a few toroids to wind, a process I find very relaxing and almost meditative.

After putting everything together, the troubleshooting started: I did not have any oscillation. It turned out to be a bad solder joint at one of the tiny legs of the smallest chip on the board. A little bit of flux, solder paste and hot air fixed that problem.

Any time you finish a board, the next step – and usually the biggest problem of the whole project – is to decide on how to box it up. I tried something new here as well: A small sheet metal break and metal shears from Harbor Freight and some thin aluminum sheets from home depot allowed me to create an enclosure

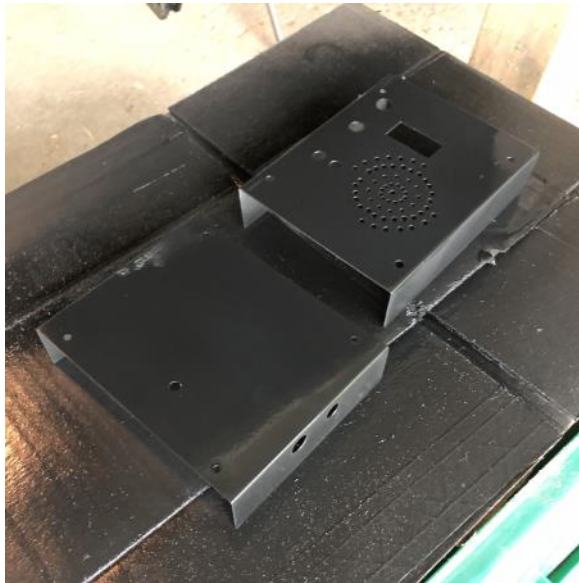
custom made for this small radio.

I started with the bottom part of the case first, so that I had something to mount the board into for the first tests and alignment:

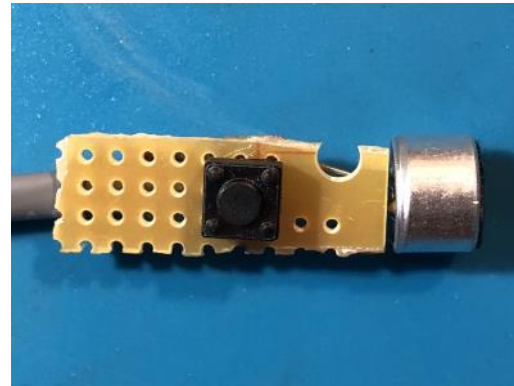
The loudspeaker is not part of the kit, I added that, and in order to fit everything into the small case, I had to move two LEDs out of the way by moving them away from the PCB and mount them directly to the case.

After that was done, the hardest part was to create the top part of the enclosure to match up with the controls, the display and the loudspeaker. Here are the two parts in the process of being painted:

And, finally, the finished radio:



The microphone that goes with it is homebrewed as well – an electret microphone capsule and a micro push button switch:



After finishing the project, and hooking it up to an antenna, I was yelling into the microphone for a few weeks before I made my first contact – that's the problem with QRP power at the bottom of the solar cycle. My first contact was with a station in Tennessee.

This was a fun project, I learned a lot about SMD hot air soldering and sheet metal work.



CHALLENGE CAMPOREE JAMBOREE ON THE AIR

Stephen Fell, K2SRF

There will be almost 2000 Scouts at Babcock Hovey Challenge Camporee on October 19 - 21. That is the same weekend as JOTA, Jamboree on the Air. Scouts all over the world will try to make contact with each other. If you would like to show Scouts what you like to do with Ham Radio, please join us. Please contact Stephen Fell K2SRF@rochester.rr.com 585-233-7706.

Babcock Hovey is located along the eastern shore of Seneca Lake near Ovid, NY. We will be located in a building near the dining hall with power.

INTERNATIONAL LIGHTHOUSE LIGHTSHIP WEEKEND

David Timmons, W2DST



Despite very poor conditions on the 40M and 20M bands, our stations at the Charlotte-Genesee Lighthouse made 44 contacts over this two day event on August 18 & 19. 23 RARA members assisted co-event leaders Tim Brown (WB2PAY) and Dave Timmons (W2DST) to make contacts in 17 states and Canada. Included in those numbers were 14 other lighthouse stations and one rare lightship, the Nantucket in Boston harbor. The club radios and antennas (attached to the lighthouse tower) worked great and helped us get through a couple pile-ups. Outside visitors to the event were greeted by the RARA volunteers and I believe we may have a few new RARA members as a result of this

event. We also had a visit from ARRL Atlantic Division Director, Tom Abernethy (W3TOM).

Thanks to all who attended to assist with another successful RARA event.





Antenna Installation—Dave at the top and Tim at the bottom

LANCASTER HAMFEST

Saturday September 15, 2018

[Bowen Road Grove](#)

3845 Bowen Road

Lancaster, NY 14086

(Located across from rear entrance of Como Lake Park)

Only \$7.00 admission and free tailgating

Large flea market for tailgaters, outdoor covered Pavilion that sellers can use

Talk in – 147.255 pl 107.2

7 am till 1 pm

Sponsored by : The Lancaster Amateur Radio Club

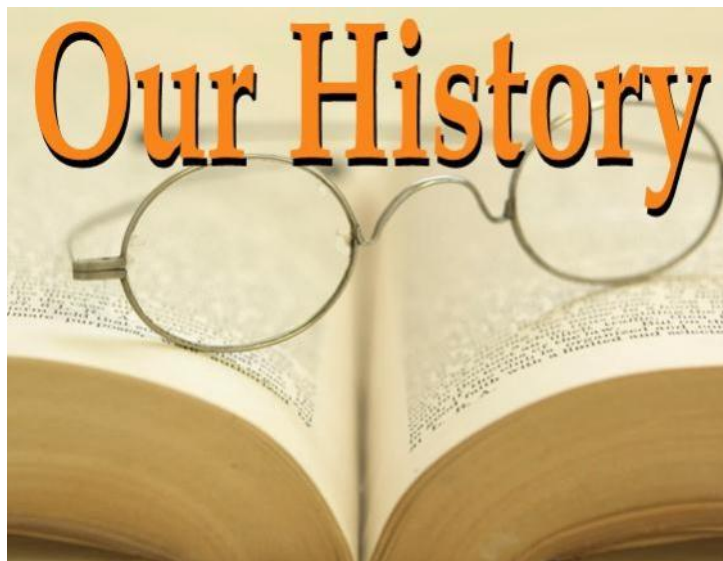
RAGS OF THE PAST

ED GABLE, K2MP, RARA HISTORIAN



40 Years Ago, September 1978

Lining up a very difficult but exciting kick off program for the season was Alan Komenski AC2K. Alan was able to schedule our area FCC District Engineer, Mr. John Theimer, coming from Buffalo, to conduct a Q&A session covering any FCC matters brought up by members. Programs were then held at the Monroe Country Co-op Extension building on Highland Avenue. Your new officers and Board members for the 1978/79 season were: President Len Gessin WA2ZNC, VP Alan Komenski AC2K, Secretary Otto Bluntzer WB2RJB and Treasurer Ron Jakubowski K2RJ. On the board: James Collinsworth N2JC (sk), Robert Erskine W2NVZ, Ed Gable K2MP, Ed Holdsworth N2EH, Ash Palkmer K2EAW, Jiohn Schooley K2NC and Harold Smith K2HC. The Rochester DX Association (RDXA) was represented in writing by Ray Leigh W2SNI, who told that Ken Palmer K2FJ would present a program on Caribbean DX'ing. RDXA meets were held at the Howard Johnson restaurant in Brighton. "For DX'ers Only" was the title of a DX centered column by Bob Roberts WA2QAU. Bob's full one and one-half page article introduced DX'ing back to the printed word in Rochester and told of plans to revive the RDXA after years on little activity. Ed Holdsworth N2EH, after years of work on the project, announced that the RARA Club station K2JD, was up and running and available for use by members on a 24 hour basis. Located at 350 East Henrietta Road, the HF SSB/CW and VHF SSB/CW/FM stations can be used at any time by RARA members who have been checked out on the equipment and building access by N2EH or K2MP. Nelson, WA2ZPE, announced a new Greece repeater is up on 146.025/625 with the call WR2AOH. With regret it was announced that Orv Bauer W2TEX, Stan Thomas K2QIV and Archie Waterbury W2BCL were reported as Silent Keys. W2TEX was a past RARA President and was a prolific RARA Rag contributor. W2BCL was a 1915 graduate of Perry High School, then Carnegie tech, a long career with Stromberg-Carlson and was a long term RARA supporter. From the Want Ads you could buy a large selection of ham equipment from the K2QIV estate being handled by Mac, K2CEH. A special commercial advertiser was Harris/RF Communications looking for Electronic Technicians.



20 Years Ago, September 1998

This issue starts another RARA season with Bob Moore, N2USB, announcing that John Woika, W8JW, will be our next speaker. John will be chatting about faster digital connections for your computer with a program titled "ISDN, The Next Step Beyond 56K." RARA meetings at this time were held at the Henrietta Fire Hall. Your new leaders at the RARA helm were President Rick Wells W2RW, VP Bob Moore N2USB, Secretary Scott Blystone K9EEE and Treasurer Dick Goslee K2VCZ. On the Board of Directors: Lloyd Caves WB2EFU, Tim Magee WB2KAO, John Woika W8JW, Ed Holdsworth N2EH, Joe Walker III KA8WJH, Keith Freeberg N2BEL and Jack Tripp N2SNL. The new RARA season also brought a new Rag Editor as Neal Eckhardt WB2EKP, after ten years of service, turn the Rag over to George Platteter AA2FO. George got busy and contributed to his first RARA Rag by writing about the upcoming License Testing Program which this year includes a road trip to provide testing at the Buffalo Hamfest. What? Yes, the same folks who brought you the May Rochester Hamfest are presenting the Buffalo Hamfest and Computer Show at the Erie County Fairgrounds, according to an article penned by Lloyd Caves, WB2EFU. Lloyd also filled two full pages in the issue introducing RARA to all of the amateurs in the surrounding multiple county area who were mailed a copy of this issue for free. Tim Magee WB2KAO, Licensing Class Director, announced that the Fall sessions would include Novice/Technician and General theory as well as 5 and 13 wpm code. Tim will crank out the code while Joe Hood K2YA works the chalk board. From the Want Ads you could buy a Discone Scanner antenna from Irv Goodman AF2K. A new commercial advertiser was Walker Tower Service with Andy Walker KA2RBW proprietor.

VE TEAM

The next **ALWAYS FREE** testing session:
Saturday September 15th (third Saturday)
Rochester Institute of Technology
Kate Gleason College of Engineering
Gleason School of Engineering
Room 3139, Bldg. 9
Use "J" parking lot

Registration at 9:45AM
Testing at 10:00AM

You do not have to preregister.

To avoid giving your SSN go to:

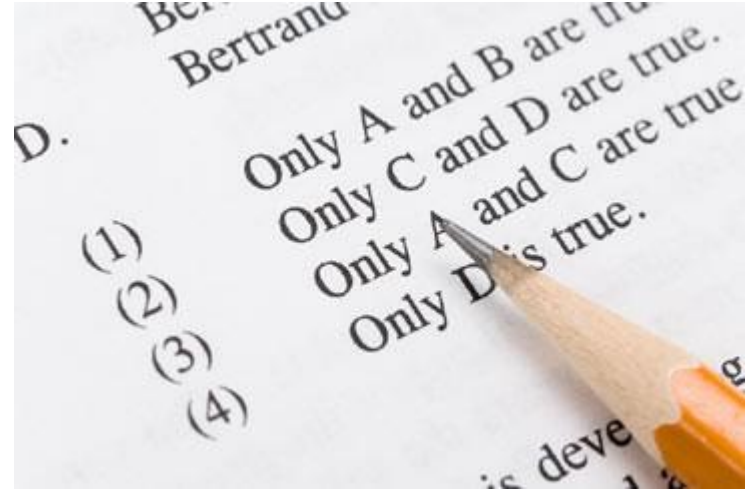
<http://wireless.fcc.gov/uls/index.htm?job=home>

Register and bring the resultant FRN.

For more info:

<https://www.laurelvec.com/?team=RARA>

Don Kiser - AC2EV
RARA Board member
VE Team Leader
585-613-1035



New licensees names are in **BOLD**

RaRa CALENDAR

Tim Barrett, K9VB

September 2018						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1 AWA Museum Open 1pm - 5pm All Asian DX Contest, SSB CW Ops Open Russian RTTY Contest AGCW QSO Party IARU Reg 1 SSB Field Day CO, AL, QSO Parties
2 All Asian DX Contest, SSB CW Ops Open Russian RTTY Contest AGCW QSO Party IARU Reg 1 SSB Field Day CO, AL, TN QSO Parties	3 ARD Spartan Sprint	4 Phone Fray	5 RaRa Monthly Mtg 7:00pm, BSA HQ, Brighton Henrietta TLR ROC City Net 8:00pm 3.826 MHz CWops Mini-CW	6 RaRa BoD Meeting 5:45pm Nova-works 333 Metro Park Rochester 14623 ARES Net 146.61 MHz 7pm NRAU 10m Activity Contest SKCC Sprint UKEICC 80M Contest NCCC Sprint	7	8 AWA Museum Open 1pm - 5pm Kulikovo Polye Contest WAE DX Contest, SSB SARL Field Day Contest SKCC Weekend Sprintathon Ohio State Parks on the Air Russian Cup Digital Contest North American CW Sprint
9 WAE DX Contest, SSB SARL Field Day Contest SKCC Weekend Sprintathon Russian Cup Digital Contest North American CW Sprint Swiss HTC QRP Sprint	10 ARRL VHF Contest	11 Phone Fray	12 ROC City Net 8:00pm 3.826 MHz	13 ARES Net 146.61 MHz 7pm NCCC Sprint	14	15 AWA Museum Open 1pm - 5pm ARRL 10 GHz and Up Contest All Africa International DX Contest Scandinavian Activity Contest CW SRT HF Contest SSB IA, NH, NJ QSO Parties
16 ARRL 10 GHz and Up Contest All Africa International DX Contest Scandinavian Activity Contest CW SRT HF Contest SSB IA, NH, NJ QSO Parties	17	18 RDXA SIARC 7.30pm Phone Fray	19 ROC City Net 8:00pm 3.826 MHz RSGB 80M CW Series	20 ARES Net 146.61 MHz 7pm NCCC Sprint	21 RaRa Banquet, 6pm Burgundy Basin	22 AWA Museum Open 1pm - 5pm ME QSO Party UKEI DX Contest SSB NA SSB Sprint
23 ME QSO Party UKEI DX Contest SSB NA SSB Sprint Classic Exchange, CW	24 NA SSB Sprint Classic Exchange, CW	25 Phone Fray SKCC Sprint NA SSB Sprint Classic Exchange, CW 220 MHz Fall Sprint	26 ROC City Net 8:00pm 3.826 MHz NA SSB Sprint Classic Exchange, CW UKEICC 80M Contest RSGB 80M Data Series	27 Monroe Cty ARES 6pm, Red Cross Center, Prince St NCCC Sprint	28	29 AWA Museum Open 1pm - 5pm ARRL EME Contest Elmira Hamfest, Horseheads, NY CQ DX Contest, RTTY TX QSO Party
30 ARRL EME Contest CQ DX Contest, RTTY TX QSO Party Classic Exchange, Phone						

NEWS FROM AREA CLUBS

MONROE COUNTY ARES / RACES News

The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month. Anyone interested, members and non-members, are welcome to attend.

The next ARES Meeting will be held on: **Thursday, September 27, 2018, at 6:00 PM.**

Meetings are held at the **Greater Rochester Chapter of the American Red Cross HQ, 50 Prince Street, Rochester, NY 14607.** (Located behind the Rochester Auditorium Theatre, 885 Main St. E.)

ARES NET: Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 pm, on the 146.61 MHz (-) 110.9 Hz PL repeater. The only exception to that are nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: www.monroecountymcomm.org

Severe Weather Alerts:

Winter brings severe weather in the form of heavy snow and strong winds. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads)

NBEMS: Want to learn about Narrow Band Emergency Messaging System (NBEMS)? It's the latest and easiest way to "Go Digital!" Bring your laptop computer and 2-M handheld transceiver. We will conduct an NBEMS clinic after every meeting through June 2019.



ROCHESTER DX ASSOCIATION, RDXA

RDXA meets the 3rd Tuesday of every month (September through May) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend. The next meeting is Tuesday September 18, 2018



Meetings are held at the Monroe County EOC 1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

ROCHESTER RADIO REPEATER ASSOCIATION

RRRA's first meeting after its summer hiatus will be held on September 21, 2018. Membership meetings are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM. The program will be on catching up with what RRRA and everyone else did over the hiatus. For those that didn't know, RRRA ran it's first independent ARRL VE testing session in August. Ed Wilkonski, our ARRL VE Testing Chairman, will report on this event.

RRRA can't exist without members. If you are not currently a member and want to support RRRA, you can join at a monthly meeting or on our web site www.k2rra.org. RRRA also accepts donations to the club.

RRRA officers for 2018 - 2019 are , Bob O'Dell, N2BZX President, Bob Shewell, N2HJD Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B Treasurer / Membership Chairman.

ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting www.rvhfg.org or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

XXR AMATEUR RADIO CLUB

No July and August meetings for the XXR Amateur Radio Club. Our next meeting will be on September 13, 2018. Stay up-to-date at <http://xarc.us>

SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. The next meeting will Wednesday, September 12th. There will be license Exams beginning at 6:30PM. 73's Steve Benton VP SIARC WB2VMR

AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads New York. Chemung County ARES (CCARES) meets the first Tuesday of the month except February at Harris Hill. See www.ccares.info for details. CCARES covers the entire area in Chemung, Schuyler and Steuben counties and all are welcome.

On April 14, 2018 The club participated in our first Twin Tiers Makers Faire at the Arnot Mall in Horseheads. If you would like to see photos of what was going on that day a link is available on our website www.arast.info. I was told there was a link on the home page.

June was field days at Cabin 5 on Harris Hill next to the National Soaring Museum. Steven KC3DOW should have some photos available on the website. Thanks to all who made the day a great one.

September is Hamfest time. As you should be aware by now, our Hamfest is Saturday September 29th starting at 0600 hours (flea market) 0800 for those coming for general admission. Flea market people use Gate one off Fairview Rd. Please bear with us while we get you into a spot for you to set up.

General admission people Please use the gate off Grand Central Ave (Gate four). Gates are marked with green backed signs (County markers not ours).

Breakfast should be ready about 7:00 am or shortly there after. Lunch will be announced after breakfast is sold out.

Presale tickets are available from any board member for \$6.00 They are also available online at our website www.arast.info. The day of the event pricing is \$8.00.

Talk-in will be on the 146.70(-) or the 147.36(+). Both repeaters will be monitored.

I hope to see a good turn-out. It's going to be a real great time.

Communicators are needed to help out with the 2018 Wineglass Marathon Sunday September 30, 2018. If you can help out (even for a few hours) contact the Emergency Coordinator before September 10th at emergencycoordinator@arast.info.

tor@stny.rr.com. We have to let the EMO's office know who will be participating.

Our website is still under construction. It is anticipated that construction will continue until after the Hamfest. Until that is finished check us out at www.arast.info.

Don't forget to check out our repeaters when you visit the area. The N3AQ 147.36(+) and the 146.70(-) are the principal 2 meter repeaters. Also Echolink is available using the call sign KA2BED-R. Check it out. A full list of available repeaters that can be heard in the twin tiers area surrounding Chemung County can be found at www.arst.info/arast_website/public/repeaters.php

COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7pm. Each meeting has a brief training/refresher period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9pm (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net, Thursday at 8:30pm on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: www.k2srv.org

DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvrrptr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry PI](#) combination. DCAP meets for breakfast at 7am nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715MHz with a PL of 110.9 Hz.

WESTSIDE AMATEUR RADIO CLUB

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the first Tuesday of the month, 7PM, at the Chili Public Library. The Library is located at 3333 Chili Ave, Rochester, NY 14624.

The talk in repeater for all meetings is the WR2AHL Repeater 146.760MHz - 110.9. AllStar, Echolink, and web streaming connections are available.

Website: <http://WestsideAmateurRadio.club>

INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Interlock Rochester is open most every Tuesday night at 7pm. We're in the Hungerford Building (1115 East Main Street, Rochester NY), just north of Village Gate. Come to Door #7 (to the left of Comics Etc) and buzz Suite 200. Want to know more? Visit our website at <http://www.interlockroc.org/>, contact us at info@interlockroc.org, or find us in #interlock on Freenode IRC.

GENESEE VALLEY AMATEUR RADIO ASSOCIATION

2018 Meeting and Testing Schedule

Testing Schedule:

Saturday, September 15, 2018 1:00 PM - 2:00 PM

Saturday, October 20, 2018 1:00 PM - 2:00 PM

Meetings to follow after testing.

Location -

Brick Presbyterian Church

6 Church St.

Perry, NY 14530

Email n3dsp@lafireline.net for details.

ROCHESTER MAKERSPACE

The Rochester Makerspace is located at the rear of 850 St. Paul Street in almost 4,000 square feet of workspace. We are a volunteer-run 501c(3) nonprofit organization and our mission is to encourage learning, creativity and collaboration. We do that by providing low-cost and free access to sophisticated tools, offering a wide variety of classes, and by providing opportunities for "makers," artists and crafts persons of all kinds to meet and learn from each other.

Drop in to explore, learn and make at our weekly open house:

Every Thursday Night, 6 to 10 PM – Weekly Community Night & Open House
Every Saturday, 11 AM to 3 PM – Weekly Community & Open House
Park in the lot at Scrantom St. and Conkey Ave. and follow the signs.

Every Thursday Night, 7 to 9:30 PM – Microcontrollers & Robotics Meetup

A ham bench is set up with a 2 meter FM radio and a laptop with WebSDR. Waiting for nicer weather to install outside antennas for the Heathkit HW101 transceiver and Kenwood all mode 2 meter transceiver. Donations of ham equipment accepted.

For more information visit Rochestermakerspace.org

ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rocheasterastronomy.org/>

THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

THE RADIO AMATEUR IS:

CONSIDERATE	Never knowingly operating in such a way as to lessen the pleasure of others.
LOYAL	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
PROGRESSIVE	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
FRIENDLY	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
BALANCED	Radio is an avocation, never interfering with duties owed to family, job, school or community.
PATRIOTIC	With station and skill always ready for service to country and community.

RARA MARKETPLACE

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Ad size and cost—**per year**:

Business Card	\$140
Quarter Page	\$300
Half Page	\$600

Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 4,500.

Pass it forward
by donating your radio
or accessory to RARA.



Your item may be sold at future RARA events with proceeds to benefit RARA members.

You will get a tax-deductible receipt and the satisfaction that comes with doing good for others.

Call 585-210-8910 or email
Secretary@RochesterHam.org.

RARA is an IRS 501.c.3 non-profit

Consult with your tax advisor.

RARA OFFICERS, DIRECTORS AND COORDINATORS

OFFICERS

President: Forest Shick, WA2MZG	(585) 721-1653	wa2mzg@arrl.net	Treasurer: Brian O'Connor, KA2CGB	(585) 721-2346	ka2cgb@arrl.net
Vice-President: Tim Guyot, KB1POP	(585) 406-3163	timguyot@gmail.com	Secretary: Anand Choudri, KC2KPG	(585) 377-0759	kc2kpg@arrl.net

DIRECTORS

Tim Barrett, K9VB	(585) 582-2108	tim.k9vb@gmail.com	Mark Pedersen, KC2UES	(585) 613-4052	mpeder21@gmail.com
Tim Brown, WB2PAY	(585) 750-2087	tjbrown@rochester.rr.com	Gary Skuse, KA1NJL	(585) 223-1511	ka1njl@arrl.net
Don Kiser, AC2EV	(585) 613-1035	dkiser100@gmail.com	Scott Theis, W2LW	(845) 774-9809	sa_theis@hotmail.com
Mike Moore, KC2NM	(585) 721-0011	mikemoore@ieee.org			

ACTIVITY COORDINATORS

Club Historian	Ed Gable, K2MP	egable@rochester.rr.com	Public Service	Mike Moore, KC2NM	mikemoore@ieee.org
Club Station Trustee	Jim DiTucci, N2IXD	n2ixd@arrl.net	Raffle Administrator	Volunteers Needed	
Education	Tim Brown, WB2PAY	tjbrown@rochester.rr.com	RARA Academy	Tim Brown, WB2PAY Scott Theis, W2LW	tjbrown@rochester.rr.com webmaster@rochesterham.org
Hamfest Co-Producers	Tim Guyot, KB1POP Mike Kolstee, KD2IZQ Mike Moore, KC2NM	timguyot@gmail.com mckolst@yahoo.com mikemoore@ieee.org	RARA RAG Editor	Forest Shick, WA2MZG	editor@rochesterham.org
VE Team	Don Kiser, AC2EV	dkiser100@gmail.com	Refreshments	Kelly Nichols, KD0FOP Robert Mac Donald, KD2OHI	
Media Communications	Tim Guyot, KB1POP	timguyot@gmail.com	Reward Points Administrator	Tim Barrett, K9VB	tim.k9vb@gmail.com
Meeting Audio	Brad Allen, KB2CHY	ballen@frontiernet.net	Venture Crew	Stephen Fell, K2SRF Mark Pedersen, KC2UES	k2srf@rochester.rr.com mpeder21@gmail.com
Membership Secretary	Tim Barrett, K9VB	tim.k9vb@gmail.com	Webmaster	Scott Theis, W2LW	webmaster@rochesterham.org

OCTOBER RAG DEADLINE

SEPTEMBER 15, 2018



**RARA meets at 7PM on the
first **Wednesday** of each month. Join
us at:**

Seneca Waterways Council, BSA Headquarters
2320 Brighton Henrietta Town Line Rd
Rochester, New York 14623

Get Directions

Rochester Area Repeater Listing

THE RARA RAG

Published by
Rochester Amateur Radio Association, Inc.
P.O. Box 93333, Rochester, NY, 14692-8333
Hotline – (585) 210- 8910
Website – <http://www.rochesterham.org>

ROCHESTER AREA RADIO CLUB CONTACTS

Antique Wireless Association (AWA)
Lynn Bisha, W2BSN: lbisha@rochester.rr.com

Amateur Radio Association of the Southern Tier (ARAST)
Reiner Dieg, N2PEZ: rdieg@yahoo.com.

Astronomy Section Rochester Academy of Science
Mark Minarich: mminaric@rochester.rr.com

Community Amateur Radio Club (CARC)
Joe Gangi, AC2NB: ac2nb.carc@gmail.com

Digital Communications Association of Perinton (DCAP)
Gary Skuse, KA1NJL: ka1nil@arri.net

Drumlins Amateur Radio Club Ltd. (DARC)
Alan Cook, K2MPE: alancook948@gmail.com

Fisherman's Net Amateur Radio Club
Jim Sutton, N2OPS: jim@otrym.org

Genesee Valley Amateur Radio Assn.
Bill Boyd, N3DSP: N3DSP@lafireline.net

Monroe County ARES
Jim DiTucci, N2IXD: n2ixd@arri.net

Orleans County Amateur Radio Club (OCARC)
Terry Cook, K2EYS: k2eys@ocarc.us

Rochester Amateur Radio Association (RARA)
Forest Shick, WA2MZG: wa2mzg@arri.net

ROC City Net
Jim Merolillo, K2ZX: k2zx52@gmail.com

Rochester DX Association (RDXA)
Chris Shalvoy, K2CS: cshalvoy@att.net

Rochester Makerspace
Jason Peppers: floedaedalus@yahoo.com

Rochester Radio Repeater Association (RRRA)
Bob Shewell, N2HJD: bshewell@frontiernet.net

Rochester VHF Group (RVHFG)
John Stevens, WB2BYP: wb2byp@arri.net

Squaw Island Amateur Radio Club (SIARC)
Steve Benton, WB2VMR: sbenton2@rochester.rr.com

Westside Amateur Radio Club
Justin Grigg, KC2EQU: communications@westsideamateurradio.club

XXR Amateur Radio Club
Brian Donovan, K2AS: k2as@outlook.com

The Marsh Road Bridge over the Erie Canal is closed by Route 96

Follow these alternate directions from:

490 East...take exit 26, Pittsford - Palmyra Road, Turn left onto Route 31, then left onto Marsh Road. Building will be on the right before the Bridge.

Thruway... Exit 45 to 491 West, to exit 26 Pittsford - Palmyra Road, turn right onto Route 31, then left onto Marsh Road. Building will be on the right before the bridge.

490 West... Exit 26, Pittsford - Palmyra Road, turn right onto Route 31, then left onto Marsh Road, Building will be on the right before the bridge.

Route 96... Turn onto Kreag Road (light by the Mobil station), next light is Route 31, turn left. After the 490 x-way turn left onto Marsh Road. Building will be on the right after the bridge.

